



PATENT ABSTRACTS OF JAPAN

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(54) METHOD FOR STICKING TITANIUM DIOXIDE

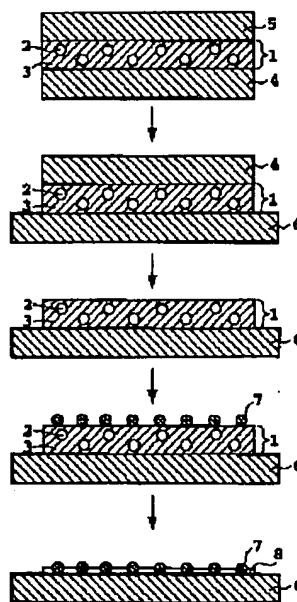
(57) Abstract:

PROBLEM TO BE SOLVED: To prevent dripping and uneven coating and to enhance workability by sticking an adhesive sheet contg. a thermally decomposable adhesive and a fusing agent to a body to be subjected to sticking, forming a layer of titanium dioxide powder on the adhesive sheet and firing the body to thermally decompose the adhesive and to stick the titanium dioxide powder to the body with the fusing agent.

SOLUTION: A dispersion contg. a fusing agent 2, a thermally decomposable adhesive 3 and a solvent is applied on a peeling film 4 and dried to form an adhesive sheet 1 and a peeling film 5 as a protective film is stuck to the adhesive sheet 1 on the surface other than the dispersion side. The peeling film 5 is peeled off and the adhesive sheet 1 is stuck to a body 6 to be subjected to sticking. The peeling film 4 is then peeled off, a layer of titanium dioxide powder 7 is uniformly formed on the adhesive sheet 1 and the body 6 is fired to thermally decompose and remove the adhesive 3 from the adhesive sheet 1 and to melt the fusing agent 2. The titanium dioxide powder 7 embedded in a

glass fusion obtd. by the melting of the fusing agent 2 so that the surface of the powder 7 is exposed is stuck to the body 6.

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M781 M903 M904 M910 N104 Q261 Q453 R036 R043; R01966-K R01966-P
R01966-U; 1966-P 1966-U
PA - (LINT-N) LINTEC CORP
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PR - JP19980010577 19980122
XA - C1999-142863
XIC - B01J-021/06 ; B01J-035/02 ; B32B-009/00
XP - N1999-363959
AB - JP11207189 NOVELTY - An adhesion sheet (1) containing binder (3) and
glass frit (2) is adhered to an adherent (6) and the surface of the
adhesion sheet is provided with a titanium oxide powder layer (7) by
baking. By thermolysis, the binder is removed and titanium oxide is
adhered to the adherent using glass frit.
- USE - For the manufacture of titanium oxide photocatalyst which may be
coated on tiles, outer walls, etc..
- ADVANTAGE - Commercialisation of the antimicrobial tile becomes easy
as organic substances that may decompose during optical catalysis
action, thermolysis, etc. are not contained in the final product.
- DESCRIPTION OF DRAWING(S) - The figure shows titanium oxide adherence.
(1) Adhesion sheet; (2) Glass frit; (3) Binder; (6) Adherent; (7)
Titanium oxide powder layer.
- (Dwg.1/3)
CN - R01966-K R01966-P R01966-U
DRL - 1966-P 1966-U
IW - TITANIUM OXIDE ADHERE TITANIUM OXIDE PHOTOCATALYST MANUFACTURE
COMPRISE ADHERE ADHERE ADHESIVE SHEET CONTAIN GLASS FRIT BIND REMOVE
BIND THERMOLYSIS
IKW - TITANIUM OXIDE ADHERE TITANIUM OXIDE PHOTOCATALYST MANUFACTURE
COMPRISE ADHERE ADHERE ADHESIVE SHEET CONTAIN GLASS FRIT BIND REMOVE
BIND THERMOLYSIS
NC - 001
OPD - 1998-01-22
ORD - 1999-08-03
PAW - (LINT-N) LINTEC CORP
TI - Titanium oxide adherence in titanium oxide photocatalyst manufacture -
comprises adhering adherent to adhesion sheet containing glass frit
and binder and removing binder by thermolysis